



Indiana Department of Education
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Textbook Alternatives and Digital Curriculum

21st Century Learning Lab Webinar
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21st Century Learning Lab

- A new communication channel which will be used to explore innovations in educational technology and to showcase the progress that Indiana schools are making in bringing such innovations to the classroom.
- Podcasts, webinars, DOE lunch and learns, blogs and discussions in the Learning Connection.
- <http://pod.doe.in.gov/groups/21stcenturylearninglab/>



Setting the Stage

- National Picture
- Indiana—state adoption, parents pay, state subsidizes costs for students on F/R lunch.
- State Board Textbook Waiver
 - <http://www.doe.in.gov/opd/textbook/docs/TextbookFlexibility020609f.pdf>
- Guidance to schools
 - <http://www.doe.in.gov/opd/textbook/docs/TextbookFAQsFinal090309.pdf>
- Support for Schools
 - Classroom Innovation Grants
(<http://www.doe.in.gov/olt/classroominnovationgrants.html>)
 - Collecting examples of innovation



Today's Participants

- Bartholomew Consolidated School Corporation
 - Bill Jensen, Mike Jamerson, Libby Arthur
- Indianapolis Public Schools
 - Jerry McLeish
- Delphi Community School Corporation
 - Barry Stone, Brian Tonsoni



Social Studies Department Pioneers Digital Format



Bartholomew
Consolidated School
Corporation- Columbus,
Indiana

- Bill Jensen – Director of Secondary Education
- Mike Jamerson – Director of Technology
- Libby Arthur – Social Studies Chairwoman
Columbus North High School and Northside
Middle School

BCSC Instructional Strategies

- Universal Design for Learning (UDL) and differentiated instruction
- Variety of instructional pathways
- Students as life-long learners and effective contributors to the 21st century community

The Vision

- 2008 – Social Studies Textbook Adoption
 - Focus on what / how to teach not which textbook to choose
 - Dissatisfaction with existing textbooks
 - Waiver/Opportunity to use alternative materials, specifically digital resources and computers
- Summer 2009 – Professional Development / Curriculum Development
 - Construction of the BCSC Curriculum Loft
 - Professional development
 - Design and development of unit launcher concept
 - Creation of course unit launchers by teachers
- Fall 2009 – Implementation for Social Studies at grades 7-12
 - BCSC Curriculum Loft – Digital platform that provides central storage for unit launchers and unit materials- available to all stakeholders
 - Acquisition of digital resources including netTrekker and Learn360
 - Use of netbooks to extend existing computer labs into classrooms

Execution

- Communication
 - Presentation to School Board as part of textbook adoption process
 - Rollout, parent communication, student communication
- Financing
 - Allocation of expenses for netTrekker, Curriculum Loft and Exam View to Social Studies classes, professional development
 - Purchase of projectors through CPF

Instructional Impact

- Students
 - Much more current and vibrant curriculum
 - One less textbook to carry around
 - Available anywhere, anytime
 - Encourages collegial learning environment
 - Easier to find and use reliable & safe information
- Teachers
 - Able to easily find and incorporate information and materials that support differentiated instruction
 - Sustains student focus
 - Common understanding of lesson objectives
- Community
 - Environmentally friendly
 - Maintains or reduces cost to families
 - Prepares students to be productive 21st century citizens

Results to Date

- Student Learning
 - Digital resources are consistent with BCSC's UDL vision
 - Significant improvement in middle school social studies scores over 2008.
- Acceptance
 - Students are more engaged and appreciate the reduction in textbook weight
 - Teachers acceptance is dependent on over-all comfort level with technology

Lessons Learned

- There is a spectrum of professional readiness
- Some students still prefer using paper copies
- Technology infrastructure is vital
 - Improved wireless access
 - 1-to-1 computing
 - Network storage
 - Strategies for technology support

Next Steps...

- Expand the use of digital resources across the curriculum
 - netTrekker for elementary students
 - BrainPop at all grade levels
- Implementation of student portfolios via netTrekker
- Continued professional development
- Evaluation of instructional impact and identification of areas for improvement



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DISCOVER





Moving Beyond the Textbook: Partnership of IPS and Discovery Education

**Presenter: Gerald (Jerry) McLeish, Ed. D.
Director of K-12 Social Studies and World Languages**

- **Need: to empower teachers to engage 21st Century learners to improve achievement; even the playing field for low income urban learners**
- **Opportunity: Indiana DOE instituted waiver process in 2009 to use digital curriculum in lieu of traditional 6 year textbook adoption process**



IPS – Discovery Education Partnership 3-Year Pilot in Social Studies, cont.

- 11 Schools – Grades 5, 7, 8, 9, 11**
- 42 Teachers participating -- Teacher Association agreed to support Pilot**
- Professional development ongoing for 3 years**
- District Vision on Technology – District Technology Plan**
- 2010-11: All secondary students to have 1:1 netbooks or laptops**
- District IT to support or host over 200 software applications**



Rollout of Pilot

- **11 schools identified– Grades 5, 7, 8, 9, 11**
- **Pilot funded through textbook rental fund***
- **All social studies teachers identified to participate**
- **Technology assessment conducted for implementation (started with minimum)**
- **Summer webinar training from DE held for administrators**
- **Professional development plan established and approved; teachers participated in 7 release days during school year**
- **Pilot elements were aligned with District Technology Plan**
- **All secondary students to have 1:1 netbooks or laptops; Promethean and SmartBoard in each secondary school; district IT to support or host over 200 software applications**

DATA (Year 1)

- **Anecdotal data shows students became more active in learning; achievement incrementally better as teachers used digital curriculum and tools**
- **ISTEP -- Students in several of 5th and 7th grade teachers classes achieved at higher rate than average district improvement rate**
- **Most teachers excited about this pilot opportunity given that the district is moving in the direction of 1:1 technology for students**

WHAT WE LEARNED

- **Start the planning at least a year prior to implementation**
- **Technology needs to be readily available at start of initiative**
- **Communication among administrators, departments, and participating staff must be ongoing**

WHAT'S NEXT

- **Expansion**
- **Funding**
- **Technology**
- **Future textbook adoptions**



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Delphi Community High School

- Barry Stone – High School Principal
- Brian Tonsoni –
Social Studies Teacher, US History and
Economics
Recognized by Purdue University as
Cooperative Teacher of the Year for his work
with Student Teachers
- Only one thing affects student achievement,
instruction

What we did – Mr. Stone

- DCSC school goal to be #1 academically in the state
- Technology to enhance the goal would include a “1 to 1” laptop initiative
- Technology director and I formulated a plan to be “1 to 1” by 2011-12 school year and presented to superintendent
- Plan includes alternative textbooks in Social Studies
- Last year Social Studies classrooms equipped with projector, sound system, QOMO pad (hand held smart board), 30 Acer Netbooks, and Cart
- Now all DCSC teachers have laptops with projectors and smartboards or QOMO pads. Campus is wireless with Fiber internet access
- DCSC has laptops/netbooks 1 to 1 grades 2 – 9
- All Teachers and Students have nettrekker and echalk



How we did it – Mr. Tonsoni

- Dive in head first, or really I was pushed!!!
- Standard based lesson planning
- Created an outline from state standards on subjects for instruction – syllabus
- Using online resources such as nettrekker and google to research material for students to read or use in class
- Formulate lesson plan based on topic, research material found, and technology available in the classroom
- Example of classroom –
pod cast, photo story, or powerpoint



Our results – Mr. Tonsoni

- Student engagement has increased for the struggling learners
- Communication has increased between student and teacher – Email and e-chalk
- Student to student communication has increased
- Increased opportunity to meet IEP's with technology, ie. Electronic notes for immediate printing
- Technology brings the lessons to life --
- Energized the teacher



What's next? – Mr. Stone

- We did not adopt math textbooks – Algebra I, 50% of Algebra II, and all of Geometry are currently using ALEKS program for math at the High School
- New Science Facility will be completed to start in fall of 2011-2012 school year with high tech classroom
- Currently testing curriculum without textbooks using Vernier software and equipment and other online resources



Questions



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Continue the Conversation

- Digital Curriculum and Textbook Alternatives Community in the Learning Connection
- <https://learningconnection.doe.in.gov/UserGroup/GroupDetail.aspx?gid=212>



Students' desires for the features and functionality of online textbooks

Three themes emerge from the data:

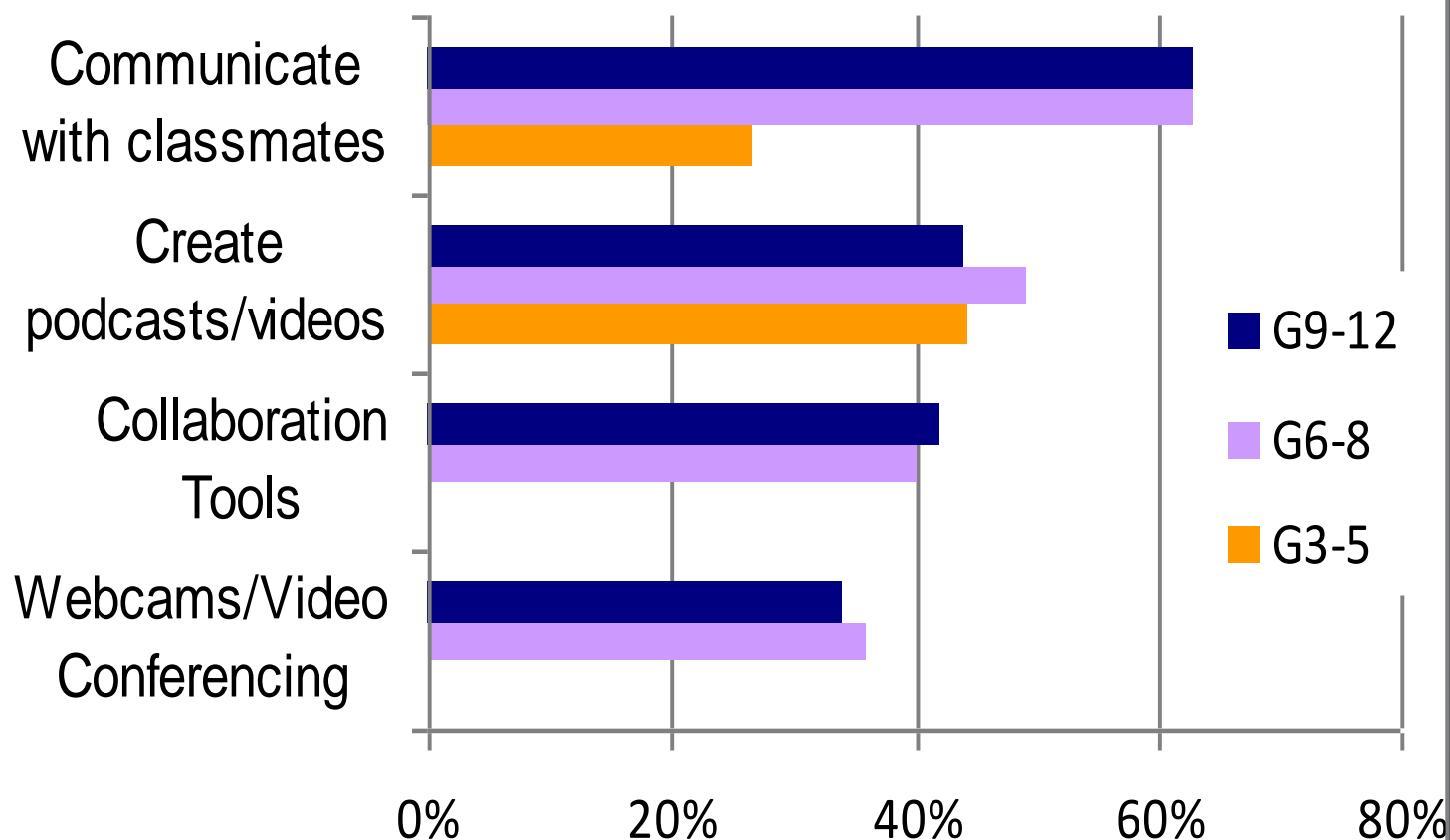
- ☐ Students want interactivity and relevancy
- ☐ They want tools to facilitate collaboration
- ☐ They want ways to personalize learning

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Students want their online textbooks to have tools that facilitate collaboration

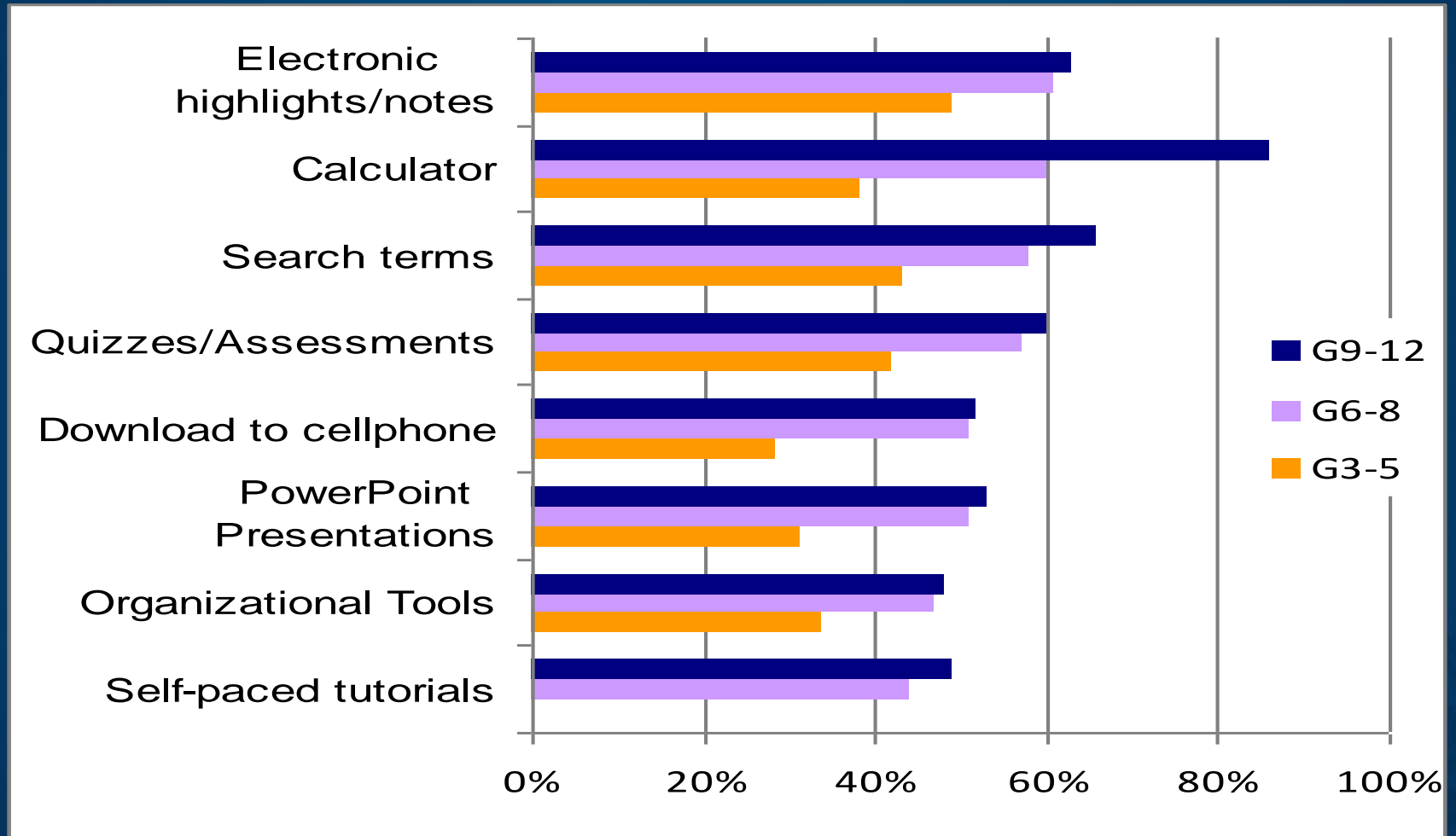


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Students want to use their digital textbooks to personalize learning

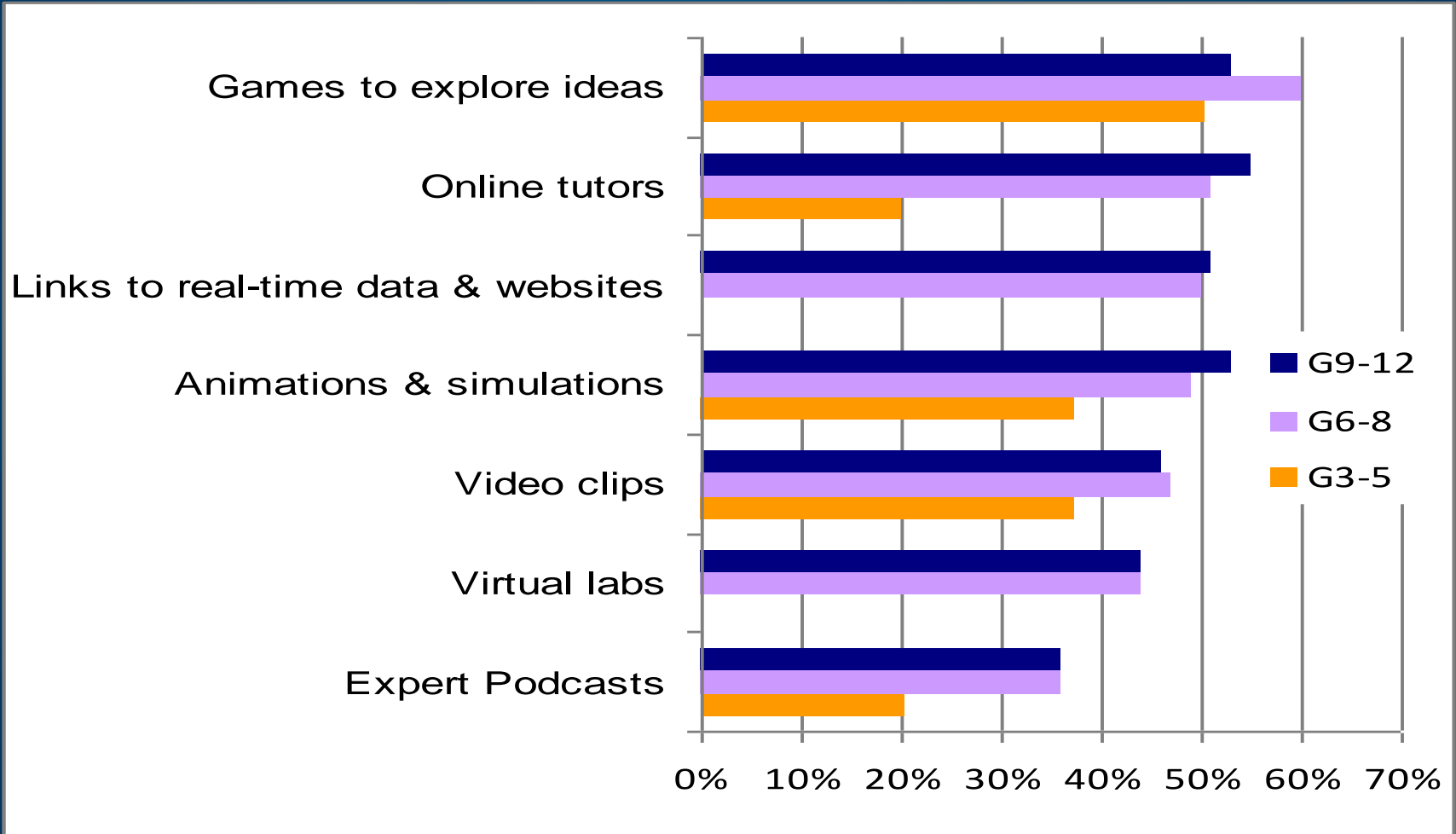


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Students want their online textbooks to be interactive and relevant



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